

SUL1

Airborne LiDAR System



Building the Future with
Accuracy
& **Precision**



Designed and Engineered in Sweden



SUL1

Airborne LiDAR System

Featuring the latest LiDAR 3D technology, the SatLab SUL1 offers high accuracy with its performance pulse and scan rate. Without compromising in quality and accuracy, it provides high density point clouds to generate data for mapping quickly and more efficiently.

Data Specifications

SENSOR

| | |
|-------------------|---------------------------|
| Laser Properties | Class 1 (eye-safe), 905nm |
| Absolute Accuracy | 55mm |
| No. of Lasers | 16 |
| Measurement Range | 0.5-100m |
| Scan Rate | 300,000 points/s |
| Operating Range | 50m @ 60% Reflectivity |
| Field of View | Hz: 360° ; V: 30° |
| Multiple Echos | 2 |

NAVIGATIONAL SYSTEM

| | |
|-------------------------------|--|
| Constellation Support | GPS, Glonass |
| Support Alignment | Kinematic |
| Operation Modes | Post-processing |
| Accuracy Position | 2.5cm |
| PP Attitude Heading RMS Error | Pitch and Roll 0.025° Heading 0.08° |



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PLATFORM

| | |
|----------------------------|------------------------|
| Recommended Scan Height | 50-60m |
| System Accuracy | 10cm RMSE @ 60m Range |
| Overall Dimensions, Sensor | 328 x 190 x 132 mm |
| Battery | TB48S |
| Operating Voltage | 12-28V |
| Power Consumption | 25W (typical) |
| Weight | 3.2kg (with battery) |
| Operating Temperature | -10°C to 50°C |
| Mounting Options | Satlab SLL-3, DJI M600 |

SOFTWARE

| | |
|--------------------------------------|---|
| Field Capture | HD Logging |
| INS Post-Processing | Pospac UAV |
| Date Fusion | HD DataCombine |
| Point Cloud Processing and Modelling | Geo-plus VersionLidar (not inclusive) Compatible with Realworks, Cyclone, Terrasolid |

